



Chapter 4

Baseline Fall Enrollment Projections, 2001-2002 to 2020-2021

IN ACCORDANCE WITH RCW 43.62.050, the Office of Financial Management (OFM) issues biennial projections of higher education enrollment based on "current" rates of participation.

The enrollment projections reflect the number of students that would enroll in public two- and four-year higher education institutions in the future if "current" participation rates by age and sex were maintained. The projections are based upon the actual fall 2000 participation rate for the two-year colleges and the four-year institutions. The rates are computed by using single year of age and sex of the population age 17 years old and over.

The enrollment projections are prepared in three steps. The first step is to calculate the participation rates, which are the number of students enrolled in fall 2000 per 100 population of the corresponding year. The rate is computed for each single year of age and sex.

The second step is to apply the calculated participation rates to the most recent OFM population forecast (prepared in November 2000) for 2001-2020. This results in fall headcount enrollment projections by single year of age and sex categories. The primary assumption of the projections is that the participation rate for 2001-2020 is held constant at the 2000 rate for the two- and four-year institutions.

In the third step, the projected headcount enrollments are converted to annual average full-time equivalent (FTE) enrollments by applying the actual current year estimated FTEs/fall headcount ratio to the 2001-02 through 2003-04 period. The most recent three-year average ratio of annual average FTEs to fall headcount is applied to the 2008-09 through 2020-21 period. An interpolation procedure is used to fill in the projection for the intervening years (see Appendix B-7).

The projections represent the level of enrollments that would be attained in the future if current participation rates for 2000 were maintained. Therefore, the projections do not reflect persons who may currently be un-served by the Washington higher education system. Chapter 5 supplements the "current participation rate" projection for the four-year institutions with an analysis of unmet demand – students who apply to Washington four-year institutions, but who are subsequently un-served by any component of the Washington higher education system.

Baseline Enrollment Projections

Since population change and participation rates are two key ingredients in the enrollment projections, trends in these two areas will be reviewed before presenting the enrollment projections.

Population Change, 1970-2020

See Figures 4-1, 4-2 and Appendix B-2

Higher education enrollment growth has been closely tied to the long-term demographic trends of the state, especially to trends in the prime college age population age 17 to 22 years.

Strong growth in the prime college age population groups beginning in the 2001-2003 Biennium is expected to place substantial additional enrollment pressures on the two- and four-year institutions.

After growing very rapidly during the 1970s, the age 17 to 22 population declined through most of the 1980s and early 1990s. The number of persons age 17 to 22 is forecast to rise sharply, from 489,852 in 2001 to 510,724 in 2003, and continue to grow rapidly after 2003, reaching 581,031 by the year 2011. The population of this group will then level off, totaling 567,343 in 2020.

The age 23 to 29-year old population, which also declined during the 1980s and 1990s, is forecast to increase by 22,000 during the 2001-2003 Biennium and continue strong growth in the 2004 to 2018 period.

The 30 to 44 age group will actually decline in population through the 2001-2003 Biennium while the population age 45 and over will continue to grow rapidly during the 2001-2003 Biennium and beyond. However, due to their low participation rates, these groups will place relatively little pressure on higher education enrollments.

Participation Rates

(1970-71 to 1999-00 for Two-Year and 1970-2000 Four-Year)

See Figure 4-3 and Appendix B-5 for two-year institutions

See Figure 4-4 and Appendix B-6 for four-year institutions

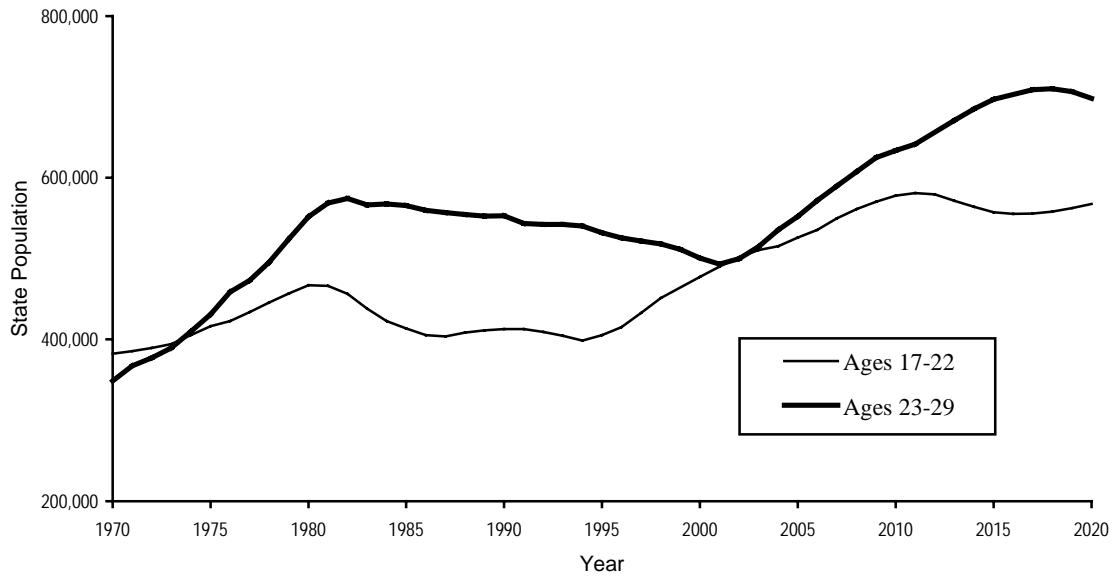
Following the creation and early development of the community college system in 1960s, two-year participation rates increased dramatically during the 1970s. However, the increased participation in the two-year system was at the expense of participation in the four-year system, which experienced overall decline in participation rates, particularly in the age 17-22 group.

In the 1980s, decreases in participation rates occurred, due mainly to the legislative enrollment lid policy. The rates picked up in the mid-1980s for the prime college-age population (17-22 year olds), while participation rates for the older groups, 23-29 year old, rates continued to drop until 1990.

By 1990 all age groups (17-22, 23-29, and 30 and over) showed increasing participation rates that continued through the decade. When participation levels in the two-year and four-year systems are examined separately certain patterns emerge. Age 17-22 participation rates have generally increased through the 1990s for both the two- and the four-year systems. Participation rates for the age 23-29 group have increased through the 1990s for two-year institutions, but they have decreased since 1995 for four-year institutions. Two-year institution participation rates for the

population age 30 and over increased slightly through the 1990s while at the same time decreasing for four-year institutions. Part of the increase in participation at the two-year level is related to the inclusion of the technical college enrollment and the expansion of the workforce-training program. In the four-system, the opening of new branch campuses in the late 1980s and more liberal state enrollment policy certainly enabled more to participate.

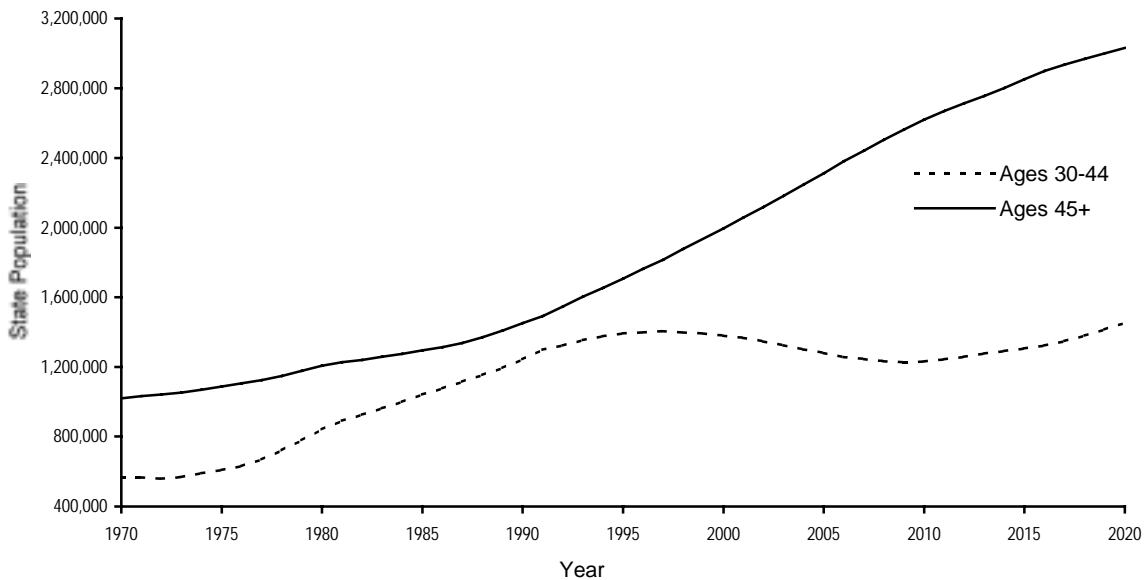
Figure 4-1
**Population History and Forecast of Persons Age 17 to 22 and 23 to 29
 1970 to 2020**



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June 2001

Figure 4-2
**Population History and Forecast of Persons Age 30 to 44 and 45+
 1970 to 2020**



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June 2001

Figure 4-3
Participation Rates for Public Two-Year System
By Selected Age Groups, 1970-71 to 1999-00

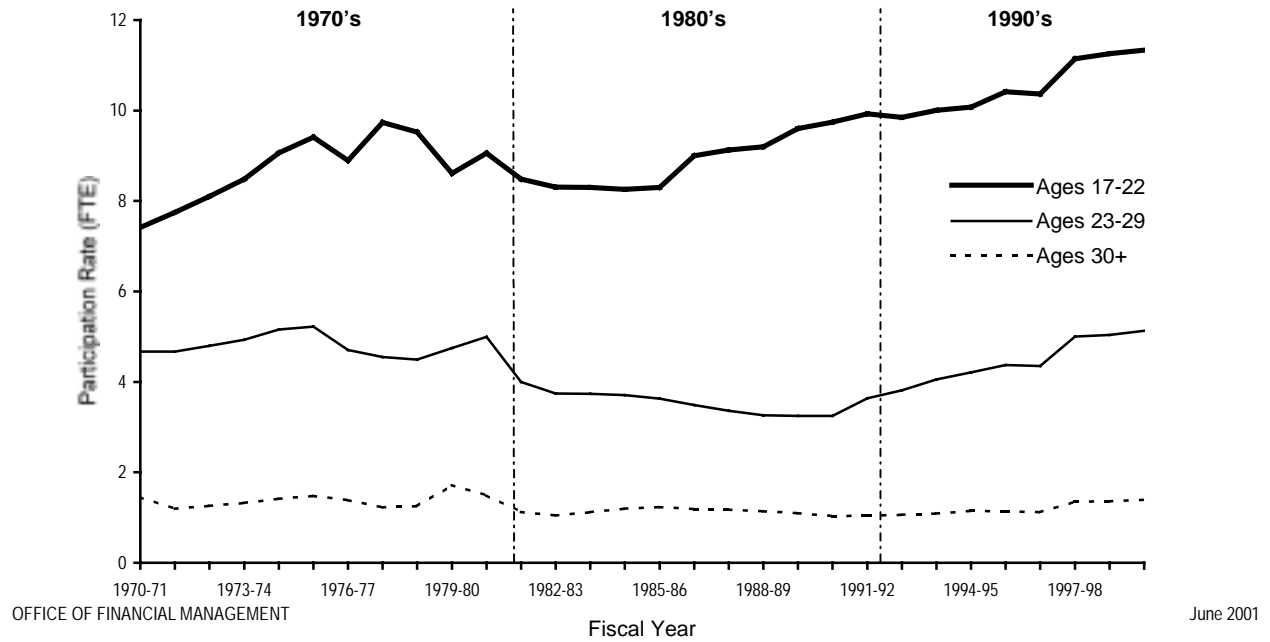
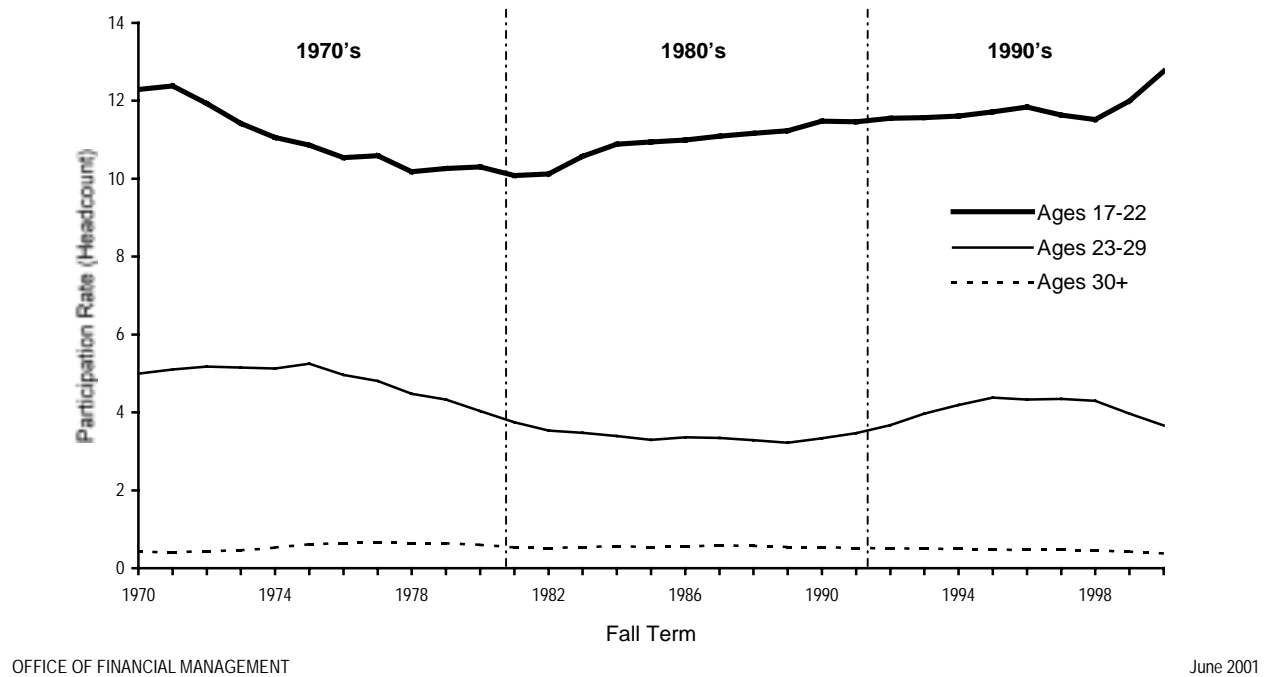


Figure 4-4
Participation Rates for Public Four-Year Universities/Colleges
by Selected Age Groups, 1970 to 2000



Baseline Enrollment Projections 2001-2002 to 2020-2021

See Table 4-1, Figure 4-5

2001-2002 to 2002-2003 Biennium

See Table 4-1 (ref: “ Current Part. Rates) and Figure 4-5

To maintain the 2000 participation rates, the projected FTE enrollments of the next biennium for the two-year system are 128,832 for fiscal year 2002 and 130,303 for fiscal year 2003. Compared to the estimated enrollment for 2000-01, these are increases of 1,416 FTEs for 2001-02 and 1,471 FTEs for 2002-03.

The projection for the four-year system is also based on the 2000 participation rates. The projected FTE enrollments are 86,154 for 2001-02 and 87,744 for 2002-03. Compared to the estimated enrollment for 2000-01, these are increases of 1,434 FTEs for 2001-02 and 1,591 FTEs for 2002-03.

2003-2004 to 2009-2010 Medium-Range FTE Enrollment Projections

See Table 4-1 (ref: “ Current Part. Rates) and Figure 4-5

The public higher education FTE projections for the next seven years show an average increase of about 1,770 for each fiscal year for two-year institutions. The projection for the four-year institutions indicates an increase of about 1,700 for each fiscal year during 2003-04 to 2019-2110.

2010-2011 to 2020-2021 Long-Range FTE Enrollment Projections

See Table 4-1 (Ref: “ Current Part. Rates) and Figure 4-5

FTE projections over the next 11 years show a less than average enrollment increase of 1,000 FTE enrollments compared to the period in the medium-range projection for the two-year institutions. For the four-year institutions, the FTE projection indicates an annual average decrease of about 260 during 2010-2011 to 2020-2021.

HIGHER EDUCATION ENROLLMENT STATISTICS AND PROJECTIONS

Table 4-1

Public Two- and Four-Year Fall Headcount and FTE Projections Current Actual Participation Rate Carried Forward Based on Actual Fall 2000 Two- and Four-Year System Enrollments And OFM November 2000 Population Forecast

<u>Fall Term/ Fiscal Year</u>	<u>Fall Term Headcount</u>	<u>Difference</u>	<u>Two-Year System Annual Avg. FTE</u>	<u>Difference</u>	<u>Fall Term Headcount</u>	<u>Difference</u>	<u>Four-Year System Annual Avg. FTE</u>	<u>Difference</u>
Budgeted								
1999-00			120,529				83,327	
2000-01 *			123,762				84,855	
Actual								
1999-00	182,364		125,131		90,428		82,778	
2000-01 *	182,343		127,416		92,096		84,720	
	(w/o 2-Plus-2)		(est.)				(est.)	
Projected								
2001-02	184,369	2,026	128,832	1,416	93,654	1,558	86,154	1,434
2002-03	186,473	2,104	130,303	1,471	95,383	1,729	87,744	1,591
2003-04	188,705	2,232	131,862	1,560	97,167	1,783	89,385	1,641
2004-05	191,312	2,607	133,531	1,668	98,469	1,302	91,132	1,748
2005-06	193,734	2,422	135,199	1,668	100,099	1,630	92,880	1,748
2006-07	196,353	2,619	136,868	1,668	102,106	2,008	94,628	1,748
2007-08	199,700	3,348	138,536	1,668	104,678	2,572	96,375	1,748
2008-09	203,450	3,749	140,205	1,668	106,652	1,974	98,123	1,748
2009-10	207,039	3,589	142,678	2,473	108,392	1,740	99,724	1,601
2010-11	209,863	2,825	144,625	1,947	109,371	979	100,625	900
2011-12	211,879	2,016	146,014	1,389	110,026	655	101,227	602
2012-13	213,303	1,423	146,995	981	110,229	203	101,414	187
2013-14	214,284	982	147,671	677	110,056	-173	101,255	-159
2014-15	215,156	872	148,272	601	109,856	-201	101,071	-185
2015-16	216,111	955	148,930	658	109,733	-123	100,958	-113
2016-17	217,244	1,132	149,711	780	109,816	83	101,034	76
2017-18	218,841	1,597	150,811	1,101	110,096	279	101,291	257
2018-19	220,458	1,618	151,926	1,115	110,471	376	101,637	346
2019-20	222,071	1,612	153,037	1,111	110,947	476	102,075	438
2020-21	223,559	1,488	154,063	1,026	111,532	584	102,612	538

* Include High Demand Pool FTEs for both Two- and Four-Year System. Include 2-Plus-2 for Two-Year System.

Projected fall term headcounts are converted to FTE by applying the current year estimated FTE/fall Headcount ratio for 2001-02 to 2003-04, the three year average ratio for 2008-09 to 2020-21, and the average annual increment between the projected 2003-04 and 2008-09 for the years during 2004-05 to 2007-08.

FTE = Annual average Full Time Equivalent.

Two-Year System = Includes Community College, Technical College, Timber Worker Displacement Program, Workforce Training Program, Private Career College, and 2-Plus-2 Program enrollments

Table 4-2

**TWO- AND FOUR-YEAR ENROLLMENT PROJECTIONS
FY 1993 Funded Participation Rate Carried Forward**

**Based on Actual Enrollments and OFM 2000 Population Forecast
Pursuant to SB 5781 (Codified as RCW 28B.15.515 and RCW 28B.10.776.786)**

<u>Fall Term/ Fiscal Year</u>	<u>Two-Year System</u>		<u>Four-Year System</u>	
	<u>Fall Term Headcount</u>	<u>Annual Avg. FTE</u>	<u>Fall Term Headcount</u>	<u>Annual Avg. FTE</u>
Budgeted				
1999-00		120,529		83,327
2000-01 *		123,762		84,855
Actual				
1999-00	182,364	125,131	90,428	82,778
2000-01	182,343	127,416	92,096	84,720
	(w/o 2-Plus-2)	(est.)		(est.)
Projected				
2001-02	153,143	107,012	90,874	83,596
2002-03	154,850	108,205	92,501	85,092
2003-04	156,794	109,563	94,003	86,474
2004-05	158,949	110,948	95,640	88,047
2005-06	160,827	112,332	97,073	89,620
2006-07	162,885	113,717	98,609	91,192
2007-08	165,701	115,102	100,429	92,765
2008-09	169,032	116,487	102,537	94,337
2009-10	172,082	118,588	104,476	96,121
2010-11	174,472	120,235	106,313	97,811
2011-12	175,902	121,221	107,487	98,891
2012-13	176,933	121,931	108,083	99,439
2013-14	177,670	122,439	108,034	99,394
2014-15	178,297	122,871	107,598	98,993
2015-16	179,034	123,379	107,136	98,568
2016-17	180,049	124,078	106,868	98,322
2017-18	181,480	125,065	106,947	98,394
2018-19	183,004	126,115	107,271	98,692
2019-20	184,562	127,189	107,778	99,159
2020-21	186,033	128,202	108,363	99,697

Based on 1992 actual participation rates according to the SB 5781 minimum enrollment requirements. Does not include Technical Colleges

Projected fall term headcounts are converted to FTE by applying the current year estimated FTE/fall Headcount ratio for 2001-02 to 2003-04, the three year average ratio for 2008-09 to 2020-21, and the average annual increment between the projected 2003-04 and 2008-09 for the years during 2004-05 to 2007-08.

FTE = Annual average full time equivalent.

HIGHER EDUCATION ENROLLMENT STATISTICS AND PROJECTIONS

Table 4-3

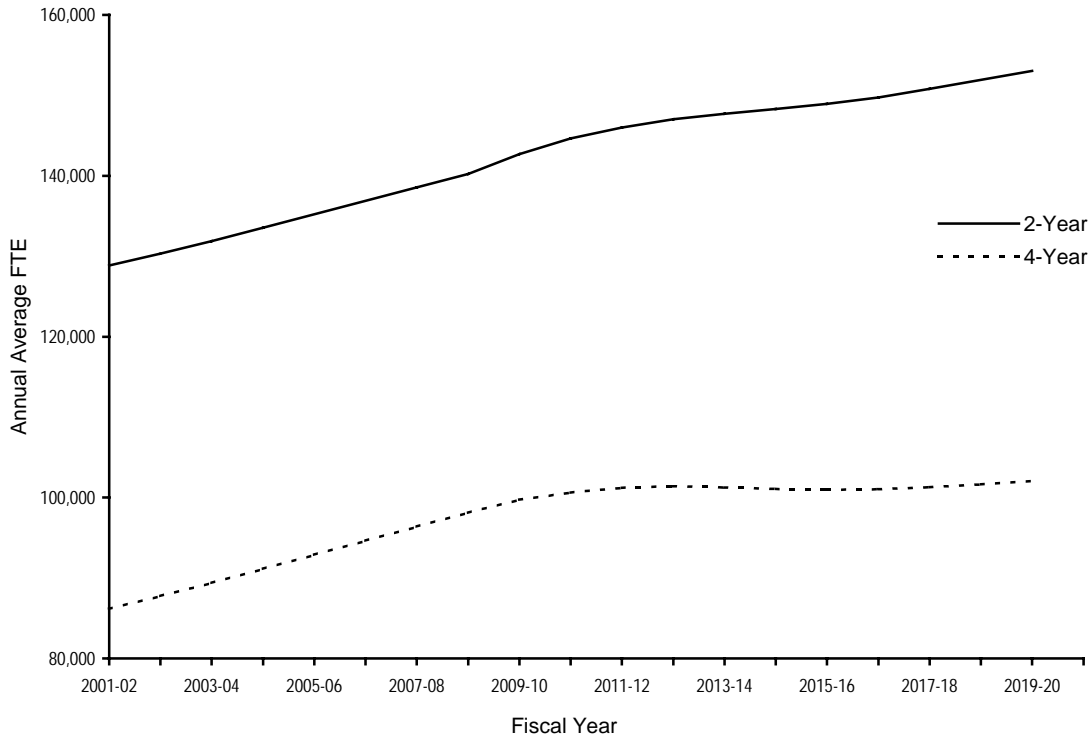
Higher Education Coordinating Board Goals

For Four-Year Upper Division, 2010 goal is based on 1997 national average participation rate and 2020 goal is based on national 70th percentile ranking. Goals for all lower division are based on 1997 participation rate. Participation rate goals are applied to the 2000 OFM population forecast.

<u>Fiscal Year</u>	<u>5781 HECB Goals</u>			
	<u>CTC</u>	<u>Difference</u>	<u>4-Yr</u>	<u>Difference</u>
Budgeted				
1999-00	120,529		83,327	
2000-01	123,762	3,233	84,855	1,528
Actual				
1999-00	125,131		82,778	
2000-01 *	127,416	2,285	84,720	1,942
	(est., w/o 2-Plus-2)			
Projected				
2001-02				
2002-03				
2003-04				
2004-05				
2005-06				
2006-07				
2007-08		Difference:		Difference:
2008-09		<u>2010-2001</u>		<u>2010-2001</u>
2009-10	140,977	17,215	115,422	30,567
2010-11				
2011-12				
2012-13				
2013-14				
2014-15				
2015-16				
2016-17				
2017-18		Difference:		Difference:
2018-19		<u>2020-2010</u>		<u>2020-2010</u>
2019-20	152,121	11,144	138,898	23,476

*Includes High Demand Pool FTEs for Two-Year and Four-Year System. Include 2-Plus-2 FTEs for Two-Year System

Figure 4-5
Annual Average FTE Projection for Public Two- and Four-Year Universities/Colleges
2001-02 to 2019-20
 (Based on Current Participation Rates)



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JANUARY 1999

Senate Bill 5781 Enrollment Projections

See Table 4-1 (ref: “5781Minimum” and “5781 HECB Goal”)

Pursuant to Senate Bill 5781 (RCW 28B15.515 and RCW 28B.10.776-786) passed in the 1993 Legislative Session, enrollment projections needed to reach the minimum Fiscal Year 1993 participation rate goal and the current long-term Higher Education Coordinating Board (HECB) goal are included in Table 4-2 and 4-3, “5781 Minimum” and “5781 HECB Goal” respectively.

Table 4-3 on “5781 HECB Goal” contains projections based on the HECB’s current long-term goals for 2009-2010 and 2019-2020. The 2009-2010 goal reflects the 1997 national participation rate for all four-year upper division and beyond, and for the lower division two- and four-year system. Table 4-3 on “5781 HECB Goal” also shows 2019-2020 goal which reflects the 1997 participation rates of the state at 70% ranking for the four-year upper division and beyond, and for the lower division two- and four-year system.

Table 4-2 on “5781 Minimum” shows projections based on the participation rate funded in Fiscal Year 1993. The bill requires OFM to determine minimum enrollment goals based on Fiscal Year 1993 participation rate.

Two- and Four-Year Combined FTE Enrollment Projection Comparisons

See Table 4-1 and Figure 4-6

Figure 4-6 illustrates three superimposed FTE enrollment projections of two- and four-year system.

1. **Current (2000-01) Budget Enrollment.** The 2001-02 level of total two- and four-year budget FTE enrollment has been held constant through 2019-2020.
2. **Current Participation Rate.** These are FTE enrollment projections based on the current participation rates (fall 2000) carried forward for the two- and four-year system.
3. **HECB Goal.** These are the two- and four-year projected FTE enrollments, which are calculated from the goal currently set by the HECB for 2009-2010, and 2019-2020.

The FTE enrollments needed to accomplish different target enrollments are shown in Figure 4-6. For example, it takes an increase of 33,785 FTEs from the current 2001 budgeted FTE enrollments to maintain the level of enrollment projected from the current participation rates in fiscal year 2010. It will take additional 13,997 FTE on top of the 33,785 to meet the HECB goal in the same year. For 2020, it must take 46,495 and 35,907 FTE enrollments respectively.

Figure 4-6
Public Higher Education FTE Projections
 Based on Population Growth, Current Enrollment, and Higher Education Coordinating Board (HECB) Goal

